Figure 22.5 Interior view of the conservatory with integrated 43 kWp transparent BP solar modules in ECN Building 42 in Petten (NL). Reproduced with permission by BEAR Architecten T. Reijenga

and expensive special glass. This cladding costs around $\$1000/m^2$, which is comparable to the cost of the PV module today.

Structural glazing or structural facades are constructed using highly developed profile systems, which can be filled with all types of sheeting, such as glass or frameless PV modules. Facades are very suitable for all types of sunshades, louvers and canopies [16]. There is a logical combination between shading a building in summer and producing electricity at the same time. Architects recognize this and many examples of PV shading systems can be seen around the world (Figure 22.6). A canopy (entrance protection) on the sunny side of a building is a good place for BIPV systems (Figure 22.7) thus providing shade, protection from rain, as well as electricity.

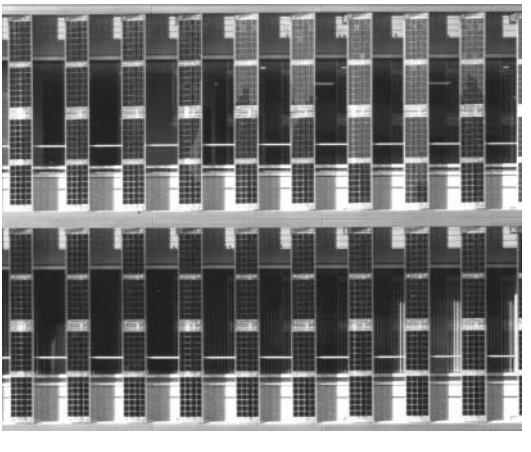

Figure 22.6 Solar shading (PV modules as part of a vertical louver system) on the west façade of the SBIC office building in Tokyo (JA). The transparent vertical louvers, with a total capacity of 20.1 kWp, were manufactured by Atlantis Switzerland. Reproduced with permission by Jiro Ono